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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/591,885	09/06/2006	Nicholas Gekakis	P1148US10	6952
	7590 09/09/200 ISTITUTE OF THE	8	EXAMINER	
NOVARTIS RESEARCH FOUNDATION 10675 JOHN JAY HOPKINS DRIVE, SUITE E225			NOBLE, MARCIA STEPHENS	
SAN DIEGO, (, SUITE EZZ3	ART UNIT	PAPER NUMBER
			1632	
			NOTIFICATION DATE	DELIVERY MODE
			09/09/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

IPLegal@gnf.org jclarke@gnf.org

	Application No.	Applicant(s)					
Office Action Occurrence	10/591,885	GEKAKIS ET AL.					
Office Action Summary	Examiner	Art Unit					
	MARCIA S. NOBLE	1632					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
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3) Since this application is in condition for allowan							
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-28</u> is/are pending in the application.							
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allowed.							
6) Claim(s) is/are rejected.							
7) Claim(s) is/are objected to.							
·	8) Claim(s) 1-28 are subject to restriction and/or election requirement.						
Application Papers							
9) The specification is objected to by the Examiner	•						
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119	animon rete the attached office	, totion of form 1	102.				
<u> </u>		(1) (6)					
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(a) or (t).					
a) All b) Some * c) None of:	. have been made in a						
1. Certified copies of the priority documents		NI -					
	2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the prior	•	a in this National	Stage				
application from the International Bureau		٦.					
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da 5) Notice of Informal Pa						
Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	6) Other:	акопт Аррії Сайон					

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DETAILED ACTION

1. Claims 1-28 are pending.

Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-8, drawn to an isolated mutant prohormone convertase I polypeptide comprising a missense mutation at residue Asn222 in the catalytic domain.

Group II, claim(s) 9-16, drawn to an isolated polynucleotide encoding a mutant prohormone convertase I polypeptide comprising a missense mutation at residue Asn222 in the catalytic domain.

Group III, claim(s) 17-28, drawn to a non-human animal which comprises a polynucleotide encoding a mutant prohormone convertase I polypeptide comprising a missense mutation at residue Asn222 in the catalytic domain.

The inventions listed as Groups I-III do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

- A) The invention has no special technical feature that defined the contribution over the prior art, or
- B) Unity of invention between different categories of inventions will only be found to exist if specific combinations of inventions are present. Those combinations include:
 - 1) A product and a special process of manufacture of said product.
 - 2) A product and a process of use of said product.
- 3) A product, a special process of manufacture of said product, and a process of use of said product.
 - 4) A process and an apparatus specially designed to carry out said process.
- 5) A product, a special process of manufacture of said product, and an apparatus specially designed to carry out said process.

The allowed combinations do not include multiple products, multiple methods of using said products, and methods of making multiple products as claimed in the instant application, see MPEP § 1850.

Applicant's claims encompass multiple inventions and do not have a special technical feature which link the inventions one to the other, and lack unity of invention.

- A) Claim 1 is drawn to an isolated mutant prohormone convertase 1 (PC1) polypeptide with a missense mutation in the catalytic domain. Canaff et al (Mol Cell Endo 156:1-6, 1999) disclose a PC1 with such a missense mutation in the catalytic domain (p. 2, col 2, par 2, lines 1-21). Therefore, the invention has no special technical feature that defined the contribution over the prior art.
- B) The claims encompass multiple products: a protein; a polynucleotide, and an animal. As discussed above, multiple products are not one of the allowed combinations for unity of invention to exist. Therefore, because multiple products are claimed and this is not an allowed combination, the instant invention lacks unity.

Applicant is advised that the reply to this requirement to be complete must include (i) an election of a species or invention to be examined even though the requirement may be traversed (37 CFR 1.143) and (ii) identification of the claims encompassing the elected invention.

The election of an invention or species may be made with or without traverse. To preserve a right to petition, the election must be made with traverse. If the reply does not distinctly and specifically point out supposed errors in the restriction requirement, the election shall be treated as an election without traverse.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to MARCIA S. NOBLE whose telephone number is (571)272-5545. The examiner can normally be reached on M-F 9 to 5:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Peter Paras can be reached on (571) 272-4517. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Deborah Crouch, Ph.D./ Primary Examiner, Art Unit 1632

Marcia S. Noble